

# Conservation by Design Refresh


Heather Tallis  
Scott Morrison  
Mark Burget



# Conservation by Design

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First systematic selection of where to work

Consistent definition of 'science-based'

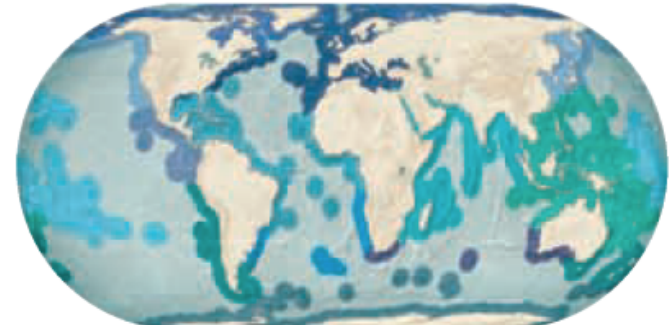
Shows us

- where to work
- what to conserve
- what strategies we should use
- how effective we have been.

# Conservation by Design



## Global Habitat Assessment

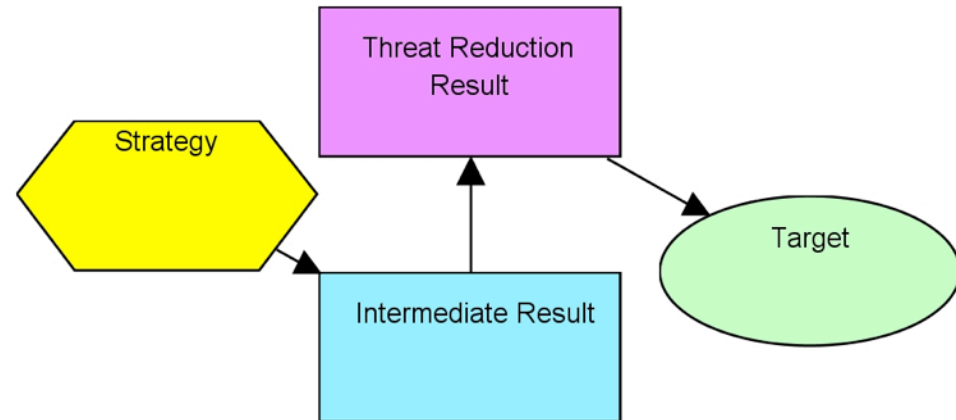


*Marine major habitat types*



## Ecoregional Planning

## Conservation Action Planning



# Conservation by Design

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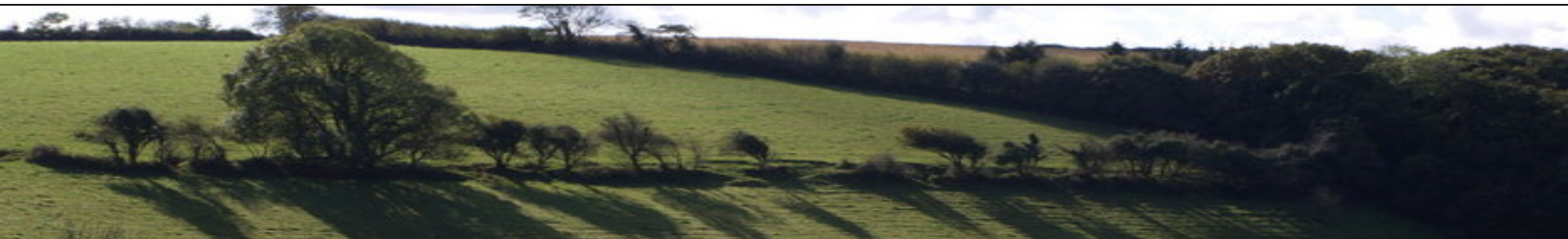
Organization identity

Consistency in approach, with room for innovation

Public recognition of science-based approach

Uptake by partners

Science staff know how to engage and where they fit



# Major Scientific Advances

**A genetic algorithm approach to multiobjective land use planning** ☆

Theodor J Stewart<sup>a</sup>,  , Ron Janssen<sup>b</sup>, Marjan van Herwijnen<sup>b</sup>

**Maximizing return on investment in conservation**

William Murdoch<sup>a</sup>,  , Stephen Polasky<sup>b</sup>, Kerrie A. Wilson<sup>c</sup>, Hugh P. Possingham<sup>c</sup>, Peter Kareiva<sup>d</sup>,




**Global mapping of ecosystem services and conservation priorities**

R. Naidoo<sup>\*,†</sup>, A. Balmford<sup>‡</sup>, R. Costanza<sup>§</sup>, B. Fisher<sup>¶</sup>,  
T. H. Ricketts<sup>\*</sup>

**Conservation and the Social Sciences**

Michael B. Mascia<sup>1</sup>, J. Peter Brosius<sup>2</sup>,  
Tracy A. Dobson<sup>3</sup>, Bruce C. Forbes<sup>4</sup>, Leah  
Horowitz<sup>5</sup>, Margaret A. McKean<sup>6</sup>, Nancy J.  
Turner<sup>7</sup>

# Major Strategic Shifts

GLOBAL SOLUTIONS	GLOBAL PRIORITIES
 <p><b>PROTECTING &amp; RESTORING NATURAL SYSTEMS</b></p>	<p>CONSERVATION LANDSCAPES GREAT RIVERS PARTNERSHIP OCEAN SOLUTIONS</p>
 <p><b>USING NATURE SUSTAINABLY</b></p>	<p>SMART INFRASTRUCTURE AND DEVELOPMENT GLOBAL AGRICULTURE SUSTAINABLE FISHERIES FORESTS &amp; CLIMATE SECURING WATER CLIMATE AND DISASTER RISK REDUCTION INDIGENOUS AND COMMUNAL CONSERVATION</p>
 <p><b>BROADENING THE CONSTITUENCY FOR CONSERVATION</b></p>	<p>VALUING NATURE EXPANDING NATURE'S CONSTITUENCY</p>

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What does CbD look like in the era of Global Challenges/Global Solutions?

# Process

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## Task Force

*Scott Morrison (CA)*

*Heather Tallis (Central)*

Craig Groves (Historian)

Giulio Boccaletti (Global priority)

Enkhtuya Oidov (Mongolia)

Matt Brown (Africa)

Rane Cortez (Latin America)

Leandro Baumgarten (Latin America)

Joe Fargione (North America)

Sally Palmer (Tennessee)

## Steering Committee

*Mark Burget (NA)*

Sawhill Fellows

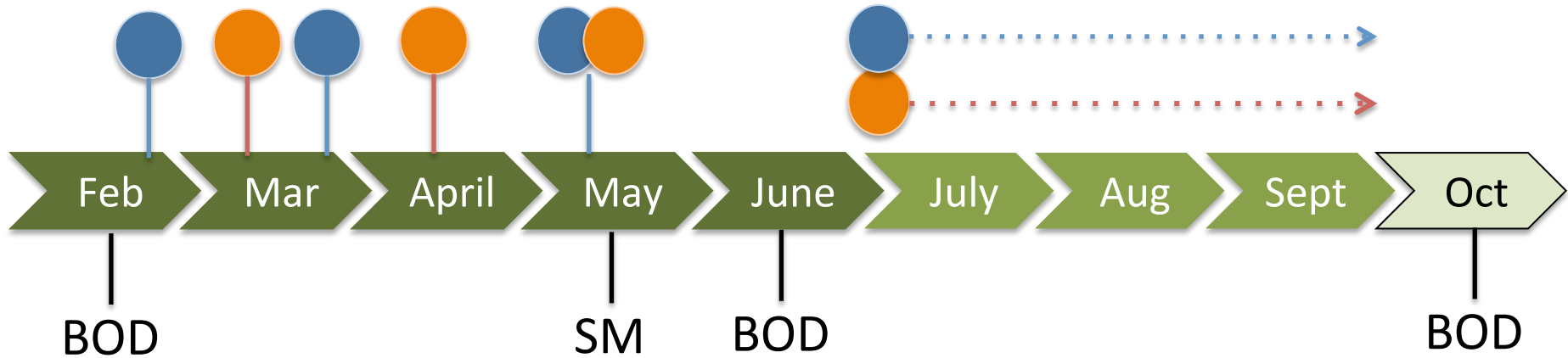
Cast of many



# Process

Task Force

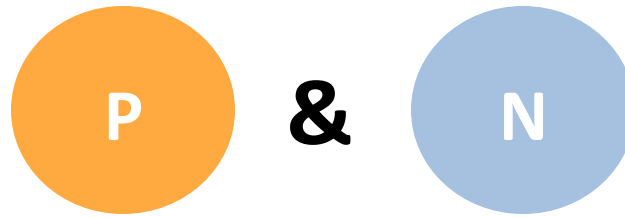
Steering Committee



# Major Issues

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What do we mean by doing conservation for “people and nature”?



# Major Issues

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What are the core scientific analyses we want to underpin our work?



# Major Issues

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How do we measure success?  
When should we not pretend that we can?



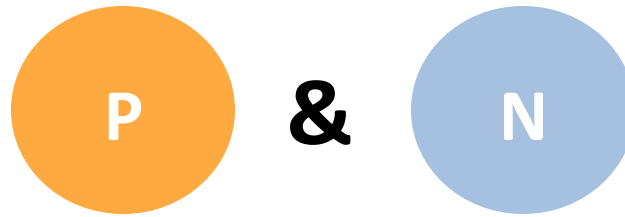
Questions?



# Major Issues

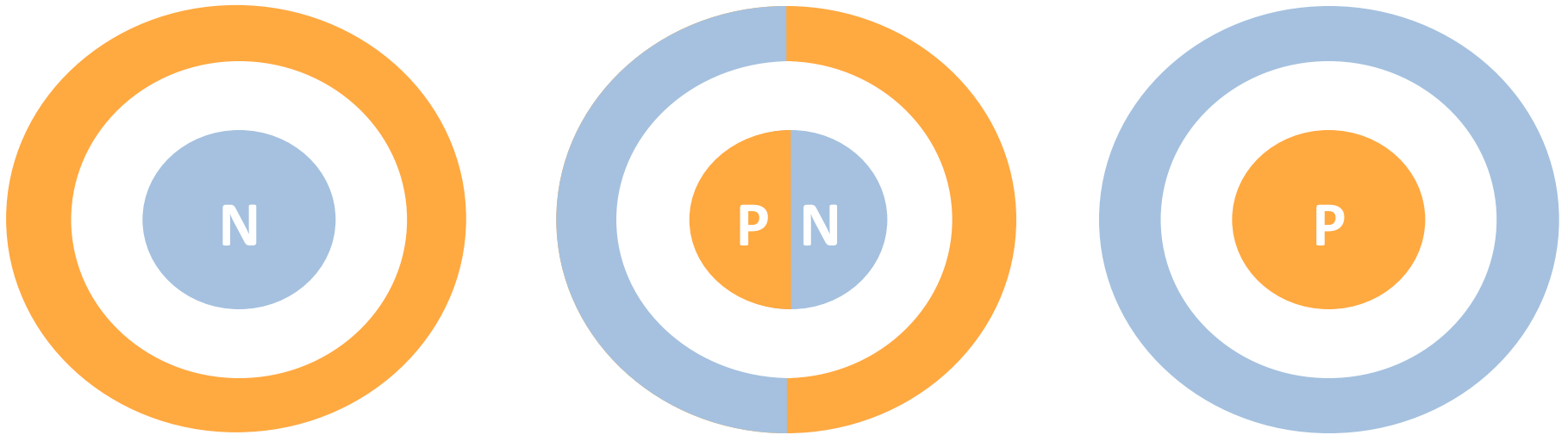
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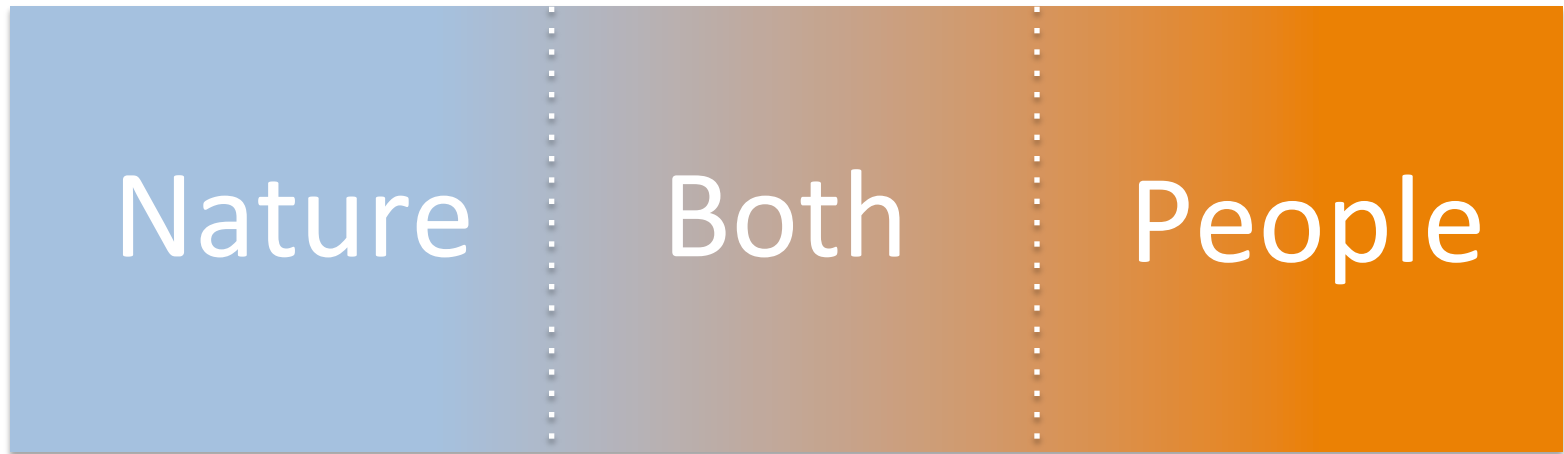
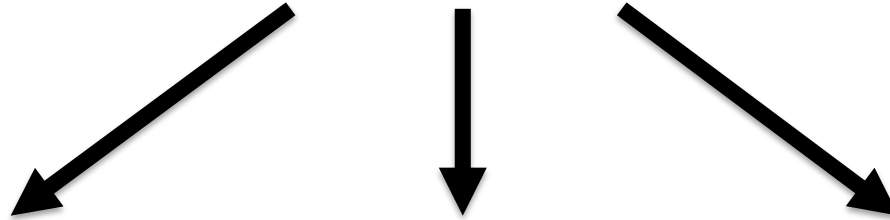
# Balancing Nature and People

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Is this trichotomy real, or a false choice?

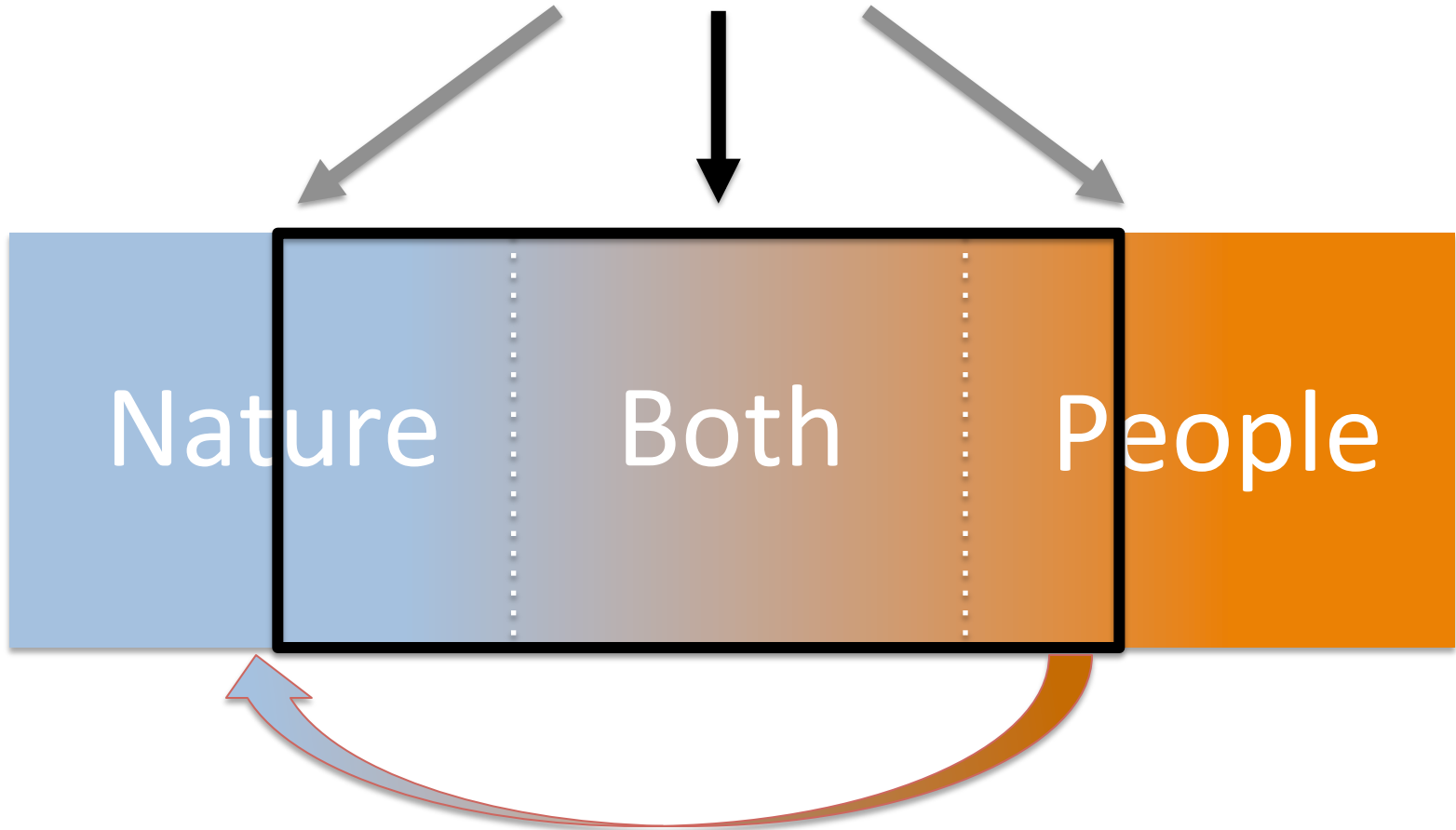
# Our Work



Nature and People are integrated everywhere, but our work can cause win-wins (Both) or Tradeoffs (Nature or People)

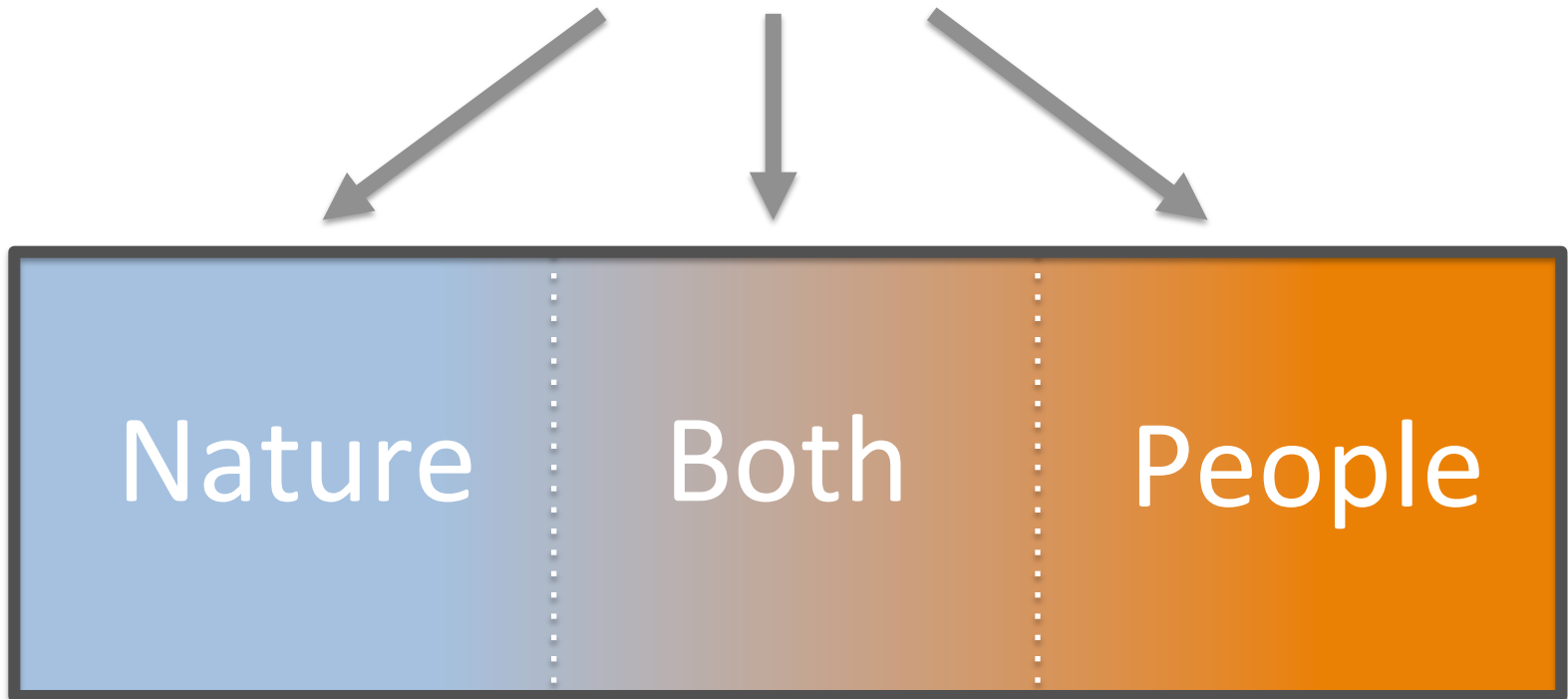


# Our Work



One framing: Focus on win-wins first. When there is a tradeoff, prioritize nature. Work with people should have clear feedback to nature.

# Concrete Examples



We will follow a few concrete examples through the full set of options and consider implications

# Major Issues

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What are the core scientific analyses we want to underpin our work?



# Core Analyses

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- Focus on a few core analyses including
  - Win-wins/tradeoffs
  - ROI
  - Thresholds
  - Technology



# Major Issues

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# Monitoring

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- Critical to answer the question of when we can show causal impact, and what to do when we can't
  - Identify few, key components of monitoring to be done



Parting Thoughts?

